INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2004/003141

CLASSIFICATION OF SUBJECT MATTER

IPC7 H04B 1/40

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H04B 1/40, H04B 1/38, H04M 1/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for inventions since 1975

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)

DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 2002-0012880 A(Jung Scok-Hong, Kim Si-Hwan) 20 February 2002 the whole document	1
A	KR 20-307362 Y(Park Sang-Ho) 15 March 2003 the whole document	1
A ···	JP 15-163719 A(TSUCHIKAWA ZENJI) 06 JUNE 2003 the whole document	1
A	JP 14-118628 A(TSUCHIKAWA ZENJI) 19 APRIL 2002 the whole document	1.
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Further documents are listed in the continuation of Box C.

See patent family annex.

the principle or theory underlying the invention

- Special categories of cited documents:
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step when the document is taken alone

Date of the actual completion of the international search

09 MARCH 2005 (09.03.2005)

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Authorized officer

Name and mailing address of the ISA/KR



Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Telephone No. 82-42-481-5949

KIM, Dong Sung

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/003141

1				
	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
	KR 2002-0012880 A	20.02.2002	NONE	
	KR 20-307362 Y	15.03.2003	NONE	
	JP 15-163719 A	06.06.2003	NONE	
	JP 14-118628 A	19.04.2002	W0 02/30091 A CN 1397131 T	11.04.2002 12.02.2003